

PATENT ABSTRACTS OF JAPAN

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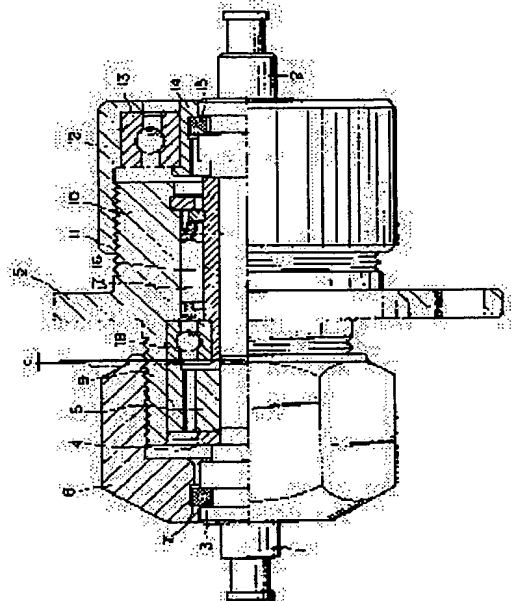
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(54) OPTICAL ROTARY CONNECTOR

(57)Abstract:

PURPOSE: To reduce the connection loss of optical fibers by preventing the axial core of a rotary plug from slanting to a fixed plug in the 1st bearing, and prevent an axis shift and variation in the distance both plug end surfaces in the 2nd bearing.

CONSTITUTION: Plugs 1 and 2 of fixed-side and rotary-side optical fibers are arranged coaxially opposite to each other and a bearing 17 is provided between the outer circumference of a sleeve 16 and the internal wall surface of a head part 10 to prevent the axial core from slanting to the fixed plug 1; and a bearing 18 is fitted in between the tip part of the sleeve 16 and the inside of a main body 8 to constrain an axis shift of the rotary plug 2 from the fixed plug 1 and variation in the distance between tip end surface sides of both plugs. This constitution allows the rotary plug 2 to rotate smoothly through the bearings 13 and 18 and to be positioned correctly, reducing the connection loss of the optical fibers greatly.



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